

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : David J. Boothby

Art Unit : 2175

Serial No. : 09/240,563

Examiner : C. Rones

Filed : January 29, 1999

Title : SYNCHRONIZATION OF DISPARATE DATABASES

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

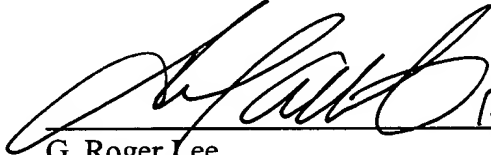
Applicant submits the references listed on the attached form PTO-1449.

This filing is being made with the filing of a Request for Continued Examination. No fee is required.

Respectfully submitted,

Date:

Aug 10, 2004

 Reg. No. 30,175
G. Roger Lee
Reg. No. 28,963

Fish & Richardson P.C.

225 Franklin Street

Boston, MA 02110-2804

Telephone: (617) 542-5070

Facsimile: (617) 542-8906

20917185.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

August 10, 2004

Date of Deposit

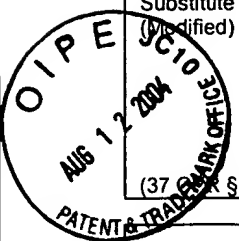


Signature

Maureen Christiano

Typed or Printed Name of Person Signing Certificate

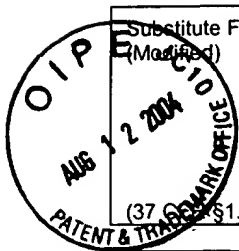
Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 05110-003004	Application No. 09/240,563
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 C.F.R. §1.98(b))		Applicant David J. Boothby	
		Filing Date January 29, 1999	Group Art Unit 2175



U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,272,074	08/07/01	Winner			
	AB	6,018,303	01/25/00	Sadeh			
	AC	5,956,508	09/21/99	Johnson et al.			
	AD	5,926,824	07/20/99	Hashimoto et al.			
	AE	5,877,760	03/02/99	Onda et al.			
	AF	5,819,274	10/06/98	Jackson Jr.			
	AG	5,737,539	04/07/98	Edelson et al.			
	AH	5,704,029	12/30/97	Wright Jr.			
	AI	5,699,517	12/16/97	Yamasaki			
	AJ	5,671,407	09/23/97	Demers et al.			
	AK	5,623,540	04/22/97	Morrison et al.			
	AL	5,581,754	12/03/96	Terry et al.			
	AM	5,581,753	12/03/96	Terry et al.			
	AN	5,557,518	09/17/96	Rosen			
	AO	5,530,939	06/25/96	Mansfield, Jr. et al.			
	AP	5,530,853	06/25/96	Schell et al.			
	AQ	5,455,945	10/03/95	VanderDrift			
	AR	5,448,718	09/05/95	Cohn et al.			
	AS	5,421,012	05/30/95	Khoyi et al.			
	AT	5,412,801	05/02/95	De Remer et al.			
	AU	5,323,314	06/21/94	Baber et al.			
	AV	5,276,876	01/04/94	Coleman et al.			
	AW	5,220,540	06/15/93	Nishida et al.			
	AX	5,201,010	04/06/93	Deaton et al.			
	AY	5,197,000	03/23/93	Vincent			
	AZ	5,134,564	07/28/92	Dunn et al.			
	AAA	5,124,912	06/23/92	Hotaling et al.			

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 05110-003004	Application No. 09/240,563
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant David J. Boothby	
		Filing Date January 29, 1999	Group Art Unit 2175

(37 C.F.R. §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ABB	4,939,689	07/03/90	Davis et al.			
	ACC	4,831,552	05/16/89	Scully et al.			
	ADD	4,819,191	04/04/89	Scully et al.			
	AEE	4,817,018	03/28/89	Cree et al.			
	AFF	4,807,155	02/21/89	Cree et al.			
	AGG	4,807,154	02/21/89	Scully et al.			
	AHH	4,162,610	07/31/79	Levine			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AII							
	AJJ							
	AKK							
	ALL							
	AMM							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	ANN	Adly, "HARP: A Hierarchical Asynchronous Replication Protocol for Massively Replicated Systems," Computer Laboratory, Cambridge University, United Kingdom (undated)
	AOO	Adly et al., "A Hierarchical Asynchronous Replication Protocol for Large Scale Systems," Computer Laboratory, Cambridge University, United Kingdom, Computer Science Department, Alexandria University, Egypt (undated)
	APP	"All I need is a miracle; computer-aided educational packages; Small Wonders," Coastal Associates Publishing L.P. (03/1992)
	AQQ	Alonso et al., "Database System Issues in Nomadic Computing," Matsushita Information Technology Laboratory, New Jersey (undated)
	ARR	Badrinath et al., "Impact of Mobility on Distributed Computations," Operating Systems Review (April 1, 1993)
	ASS	Barbara et al., "Sleepers and Workaholics: Caching Strategies in Mobile Environments (Extended Version)" (08/29/1994)
	ATT	Brandel, "New offerings fuel revival of PIM," Computerworld, p. 39 (09/12/94)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 C.F.R. § 1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 05110-003004	Application No. 09/240,563
		Applicant David J. Boothby	
		Filing Date January 29, 1999	Group Art Unit 2175

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AUU	Demers et al., "The Bayou Architecture: Support for Data Sharing Among Mobile Users," Computer Science Laboratory, Xerox Palo Alto Research Center, California (undated)
	AVV	Froese, "File System Support for Weakly Connected Operation," pp. 229-238 (undated)
	AWW	Greenberg et al., "Real Time Groupware as a Distributed System: Concurrency Control and its Effect on the Interface," Procs. Of the ACM CSCW Conf. On Computer Supported Cooperative Work, Oct. 22-26, North Carolina, ACM Press (01/01/94)
	AXX	Guy, "Ficus: A Very Large Scale Reliable Distributed File System," Technical Report CSD-910018, Computer Science Dept. UCLA (Technical Report) (06/03/91)
	AYY	Guy et al., "Implementation of the Ficus Replicated File System," appeared in Procs. Of the Summer USENIX Conf., Anaheim, CA, pp. 63-71 (06/01/90)
	AZZ	Haber, "Renegade PIMS," Computerworld, p. 109 (12/12/94)
	AAAA	Hammer et al., "An Approach to Resolving Semantic Heterogeneity in a Federation of Autonomous, Heterogeneous Database Systems," Computer Science Department, University of Southern California (undated)
	ABBB	Hammer et al., "Object Discovery and Unification in Federated Database Systems," University of Southern California (undated)
	ACCC	HP and IntelliLink connect HP 95LX with HP NewWave; IntelliLink for the HP NewWave; product announcement," HP Professional (08/1991)
	ADDD	"HP announces expanded memory version of palmtop PC, introduces 1-Megabyte HP 95LX and 1-Megabyte memory cards," Business Wire, Inc. (03/04/92)
	AEEE	Huston et al., "Disconnected Operation of AFS," CITI Technical Report 93-3, Center for Information Technology Integration, University of Michigan (06/18/93)
	AFFF	IBM Dictionary of Computing, Tenth Edition, 1993, pp. 268, 269, 31_
	AGGG	IBM Dictionary of Computing, Tenth Edition, 1993, pp. 165, 268, 349, 370, 417
	AHHH	IEEE Standard Dictionary of Electrical and Electronics Terms, Fourth Edition, 1988, p. 372, 368, 509, 563
	AIII	Imielinski, "Mobile Computing - DataMan Project Perspective," Rutgers University (undated)
	AJJJ	"IntelliLink 2.2: the software connection from desktop to palmtop; Software Review; IntelliLink 2.2; Evaluation," PC Magazine (04/28/92)
	AKKK	"IntelliLink transfers palmtop, PC data; communications software from IntelliLink Inc; brief article; Product Announcement," PC Week (11/18/91)
	ALLL	Jacobs et al., "A Generalized Query-by-Example Data Manipulation Language Based on Database Logic," IEEE Transactions on Software Engineering, Vol. SE-9, No. 1 (01/1983)
	AMMM	Jenkins, "Users struggle with E-mail Woes," Computerworld, p. 97 (10/24/94)
	ANNN	Kistler et al., "Disconnected Operation in the Coda File System," School of Computer Science, Carnegie Mellon University, Pennsylvania (undated)
	AOOO	Kumar et al., "Log-Based Directory Resolution in the Coda File System," School of Computer Science, Carnegie Mellon University, Pennsylvania (undated)
	APPP	Larson et al., "A Theory of Attribute Equivalence in Databases with Application to Schema Integration," IEEE Transactions on Software Engineering, Vol. 15, No. 4, April 1989

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 05110-003004	Application No. 09/240,563
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 C.F.R. § 1.98(b))		Applicant David J. Boothby	
		Filing Date January 29, 1999	Group Art Unit 2175

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQQQ	Mannino et al., "Matching Techniques in Global Schema Design," IEEE 1984
	ARRR	McGoveran, "Distributed not yet delivered," Computerworld, p. 112 (06/06/94)
	ASSS	Meckler Corporation, "Palmtop-to-desktop linkage software," Database Searcher (06/1992)
	ATTT	Microsoft Press Computer Dictionary, Second Edition, 1994, p. 164
	AUUU	Microsoft Press Computer Dictionary, Second Edition, 1994, pp. 105, 217, 227, 228
	AVVV	Milliken, "Resource Coordination Objects: A State Distribution Mechanism," (DRAFT) (12/10/93)
	AWWW	Nash, "Replication falls short," Computer world, p. 65 (11/21/94)
	AXXX	Noble et al., "A Research Status Report for Adaptation for Mobile Data Access," School of Computer Science, Carnegie Mellon University (undated)
	AYYY	"PackRat PIM gets older and wiser with Release 4.0; PIM update sports enhanced interface, greater ease of use," InfoWorld (12/23/91)
	AZZZ	"Palmtop PCs: power by the ounce; Hardware Review; overview of six evaluations of palm-top computers; includes related articles on Editor's Choices, suitability-to-task ratings, impressions by individual users; evaluation," PC Magazine (07/1991)
	AAAAA	"Pen-based PCs ready for prime time; includes related article on comparison of operating systems, list of vendors of pen-based products," PC-Computing (11/1991)
	ABBBB	Petersen et al., "Bayou: Replicated Database Services for World-wide Applications," Computer Science Laboratory, Xerox Palo Alto Research Center, California (undated)
	ACCCC	"Product comparison: Atari Portfolio, Casio Executive BOSS, HP 95LX, Poqet PC, Psion series 3, Sharp Wizard," InfoWorld (12/16/91)
	ADDDD	Ratner et al., "The Ward Model: A Replication Architecture for Mobile Environments," Department of Computer Science, University of California (undated)
	AEEEE	Reiher et al., "Peer-to-Peer Reconciliation Based Replication for Mobile Computers," UCLA (undated)
	AFFFF	Reiher et al., "Resolving File Conflicts in the Ficus File System," Department of Computer Science, University of California (undated)
	AGGGG	"Riding the NewWave from PC to Palmtop: IntelliLink lets NewWave users transfer files," InfoWorld (06/03/91)
	AHHHH	Salto et al., "Suitability of data models as canonical models for federated databases," Universitat Politècnica de Catalunya, Spain (undated)
	AIIII	Satyanarayanan, "Coda: A Highly Available File System for a Distributed Workstation Environment," School of Computer Science, Carnegie Mellon University (undated)
	AJJJJ	Satyanarayanan, "Fundamental Challenges in Mobile Computing," School of Computer Science, Carnegie Mellon University (undated)
	AKKKK	Sherman, "Information Technology: 'What Software Should I Use to Organize My Life'," (undated)
	ALLLL	Sheth et al., "A Tool for Integrating Conceptual Schemas and User Views," IEEE 1988
	AMMMM	Schilit et al., "The ParcTab Mobile Computing System," Xerox Palo Alto Research Center, California (undated)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)

(37 CFR 1.98(b))

Attorney's Docket No.
05110-003004Application No.
09/240,563Applicant
David J. BoothbyFiling Date
January 29, 1999Group Art Unit
2175**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	ANNNN	SPI Database Software Technologies Record Displays: Record 2, Serial No. TDB0291.0094 and Record 4, Serial No. iets0901.0073 (undated)
	AOOOO	Staten, "PowerMerge 2.0 ships; syncs moved filed," MacWEEK, Vol. 8, p. 38(1) (01/03/94)
	APPPP	Tait, Doctoral Thesis entitled "A File System for Mobile Computing," (01/01/1993)
	AQQQQ	Webster's Ninth New Collegiate Dictionary, 1986, pp. 114, 436, 440, 462, 573, 597, 620, 717, 906, 963, 979, 989, 1000, 1053, 1130, 1142, 1152, 1162, 1166,
	ARRRR	Wiederhold, Gio, Database Design, Second Edition, McGraw-Hill Book Company, 1983, p. 2
	ASSSS	IntelliLink for Windows User's Guide, Version 3.0, IntelliLink Corporation (1993)
	ATTTT	Database Subsetting Tool: Introduction to DST and DST Designer's Guide, Syware, Inc. (1993)
	AUUUU	Sarin, "Robust Application Design in Highly Available Distributed Databases," Proc. 5 th Symp. Reliability in Distributed Software and Database Systems, pp. 87-94 (Jan 13-15, 1986, Los Angeles)
	AVVVV	Distributed Management of Replicated Data: Final Report, Computer Corporation of America (October 9, 1984)
	AWWWW	Sarin et al., "Overview of SHARD: A System for Highly Available Replicated Data", Computer Corporation of America (April 8, 1988)
	AXXXX	SRI Int'l, Network Reconstitution Protocol, RADC-TR-87-38, Final Technical Report (June 1987)
	AYYYY	Danberg, "A Database Subsetting Tool" (patent application) (April 12, 1993)
	AZZZZ	Lamb et al., "The Objectstore Database System," Communications of the ACM, Vol. 34, No. 10, pp. 50-63 (October 1991)
	AAAAA	TT Interchange, Time Technology, AVG Sales & Marketing Ltd. (1995)
	BBBBB	Goldberg et al., "Using Collaborative Filtering to Weave an Information Tapestry," Communications of the ACM, Vol. 35, No. 12, pp. 61-70 (December 1992)
	ACCCC	Now Up-to-Date Version 2.0 User's Guide, Now Software, Inc. (1992)
	ADDDD	An Introduction to DataPropagator Relational Version 1, IBM Corporation (1993)
	AEEEE	Data Propagator Relational Guide Release 1, IBM Corporation (May 1994)
	AFFFF	DataPropagator Relational Guide Release 2, IBM Corporation (December 1994)
	AGGGG	DataPropagator NonRelational MVS/ESA Version 2 Utilities Guide, IBM Corporation (July 1994)
	AHHHH	Newton Connection Utilities User's Manual for Windows, Apple Computer, Inc.
	AIIII	Newton Connection Utilities User's Manual for Macintosh, Apple Computer, Inc.
	AJJJJ	Newton Backup Utility User's Guide for the Windows Operating System, Apple Computer, Inc. (1995)
	AKKKK	Newton Backup Utility User's Guide for the Macintosh Operating System, Apple Computer, Inc. (1995)
	ALLLL	Newton Utilities User Manual, Apple Computer, Inc. (1995)

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 05110-003004	Application No. 09/240,563
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant David J. Boothby	
		Filing Date January 29, 1999	Group Art Unit 2175

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AMMMMM	FileMaker Pro Server Administrator's Guide, Claris Corporation (1994)
	ANNNNN	Connectivity Pack User's Guide for the HP 200LX and the HP 100LX, Hewlett Packard
	AOOOOC	Lotus cc:Mail Release 2, Lotus Development Corporation (1991-1993)
	APPPPP	User's Guide Lotus Organizer Release 1.0, Lotus Development Corporation (1992)
	AQQQQQ	FileMaker Pro User's Guide, Claris Corporation (1990, 1992)
	ARRRRR	Poesio et al., "Metric Constraints for Maintaining Appointments: Dates and Repeated Activities"
	ASSSSS	"Now Software Announces Updated Synchronization Software for Newton 2.0 Devices; Now Synchronize Simultaneously Updates MessagePad, Now Up-to-Date & Contact", Business Wire, Inc. (1995)
	ATTTTT	"Claris Ships FileMaker Pro 3.0 for Macintosh and Windows", Business Wire, Inc. (1995)
	AUUUUU	Alsop, "DISTRIBUTED THINKING; Realizing the gravity of its PDA problems, Apple has drawn me back to Newton", InfoWorld Media Group (1995)
	AVVVVV	Rubin, "Now Software stays in sync; Now Synchronize file synchronization software for Macs and Newton PDAs; Software Review; Evaluation Brief Article", Information Access Company (1995)
	AWWWWW	"Now Calendar/Scheduler/Contact Mgr for Mac Update", Post-Newsweek Business Information Inc. (1995)
	AXXXXX	Staten, "csInStep middleware lets Newton talk to PIMs; Concierge Software LC's csInStep; Brief Article; Product Announcement; Brief Article", Information Access Company (1995)
	AYYYYY	Baum, "Designing Mobile applications; A new approach needed for on-the-road systems", InfoWorld Media Group (1994)
	AZZZZZ	Parkinson, "Remote users get in sync with office files; News Analysis", Information Access Company (1994)
	AAAAAA	Halabi et al., "An environment for specification and execution of multi-system," IEEE, pp. 680-690 (1992)
	ABBBBB	Informix Guide to SQL Tutorial Version 7.1 December 1994
	ACCCCC	Lomet, D. Using timestamping to optimize two phase commit; Parallel and Distributed Information Systems, 1993, Proceeding of the Second International Conference, 20-22 Jan 1993: Pages 48-55
	ADDDDD	Oracle 7 Distributed Database Technology and Symmetric Replication, Oracle White Paper, April 1995
	AEEEEEE	Salzberg, B., Timestamping After Commit, Procs. Of the Third Int. Conf. On Parallel and Distributed Information Systems, 28-30 September, 1994: Pages 160-167

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	